

This circular will be sent regularly to all who apply for it.

## United States Department of Agriculture,

WASHINGTON, D. C., June 30, 1917.

### MONTHLY LIST OF PUBLICATIONS.

[JUNE, 1917.]

#### READ CAREFULLY BEFORE ORDERING.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

#### SPECIAL NOTICE.

Before mailing your request be sure and see that your name and complete post-office address (street number or rural route number as the case may be) is attached.

#### FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

**NOTE.**—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

**Sweet Clover: Growing the Crop.** By H. S. Coe, Assistant Agronomist, Office of Forage-Crop Investigations. Pp. 35, figs. 11. Contribution from the Bureau of Plant Industry. (Farmers' Bulletin 797.)

Suitable for general distribution.

**The Sheep Tick and Its Eradication by Dipping.** By Marion Imes, Zoological Division. Pp. 31, figs. 15. Contribution from the Bureau of Animal Industry. May, 1917. (Farmers' Bulletin 798.)

For general distribution.

**Carbon Disulphid as an Insecticide.** By W. E. Hinds, Entomologist, Alabama Experiment Station. Pp. 21. Contribution from the Bureau of Entomology. June, 1917. (Farmers' Bulletin 799.)

A revision of Farmers' Bulletin 145. Suitable for general distribution.

**Mites and Lice on Poultry.** By F. C. Bishopp, Entomologist, and H. P. Wood, Entomological Assistant. Pp. 27, figs. 14. Contribution from the Bureau of Entomology. May, 1917. (Farmers' Bulletin 801.)

For general distribution.

**Horse-Breeding Suggestions for Farmers.** By H. H. Reese, Animal Husbandry Division. Pp. 22, figs. 10. Contribution from the Bureau of Animal Industry. May, 1917. (Farmers' Bulletin 803.)

Suitable for general distribution.

**The Drainage of Irrigated Farms.** By R. A. Hart, Senior Drainage Engineer. Pp. 31, figs. 19. Contribution from the Office of Public Roads and Rural Engineering. June, 1917. (Farmers' Bulletin 805.)

Describes method of and necessity for the drainage of farms of this character.

**Equipment for Farm Sheep Raising.** By V. O. McWhorter, Animal Husbandry Division. Pp. 28, figs. 37. Contribution from the Bureau of Animal Industry. June, 1917. (Farmers' Bulletin 810.)

For general distribution.

**How Live Stock is Handled in the Bluegrass Region of Kentucky.** By J. H. Arnold, Agriculturist. Pp. 14. Contribution from the Office of Farm Management. May, 1917. (Farmers' Bulletin 812.)

Of interest to live-stock farmers generally.

**Bermuda Grass.** By Samuel M. Tracy, Agronomist, Office of Forage-Crop Investigations. Pp. 19, figs. 2. Contribution from the Bureau of Plant Industry. May, 1917. (Farmers' Bulletin 814.)

Describes method of cultivation, uses, and value of this plant. Especially suitable for distribution in the Southern States.

**How to Select Foods. II. Cereal Foods.** By Caroline L. Hunt and Helen W. Atwater, Scientific Assistants, Office of Home Economics. Pp. 23, figs. 4. Contribution from the States Relations Service. May, 1917. (Farmers' Bulletin 817.)

For general distribution.

**Sweet Clover: Utilization.** By H. S. Coe, Assistant Agronomist, Forage-Crop Investigations. Pp. 32, figs. 13. Contribution from the Bureau of Plant Industry. May, 1917. (Farmers' Bulletin 820.)

Suitable for general distribution.

**Watermelon Diseases.** By W. A. Orton, Pathologist in Charge of Cotton, Truck, and Forage Crop Disease Investigations. Pp. 18, figs. 11. Contribution from the Bureau of Plant Industry. May, 1917. (Farmers' Bulletin 821.)

Especially applicable to conditions in the Southeastern States.

**Live-Stock Classifications at County Fairs.** By S. H. Ray, Animal Husbandry Division. Pp. 12. Contribution from the Bureau of Animal Industry. June, 1917. (Farmers' Bulletin 822.)

Of interest to fair officials and prospective exhibitors.

**Shallu, or "Egyptian Wheat" a Late-Maturing Variety of Sorghum.** By Benton E. Rothgeb, Scientific Assistant in Grain-Sorghum and Broom-Corn Investigations. Pp. 8, figs. 4. Contribution from the Bureau of Plant Industry. June, 1917. (Farmers' Bulletin 827.)

Applicable to the southern Great Plains under dry-land conditions.

**How to Detect Outbreaks of Insects and Save the Grain Crops.** By W. R. Walton, Entomologist in Charge of Cereal and Forage Insect Investigations. Pp. 24, figs. 14. Contribution from the Bureau of Entomology. June, 1917. (Farmers' Bulletin 835.)

For general distribution.

**Harvesting Hay With the Sweep-Rake.** By Arnold P. Yerkes, Assistant Agriculturist, and H. B. McClure, Agriculturist. Pp. 12, figs. 11. Contribution from the Office of Farm Management. June, 1917. (Farmers' Bulletin 838.)

Describes a means by which eastern hay-growers may save labor.

**Home Canning by the One-Period Cold-Pack Method,** Taught to Canning Club Members in the Northern and Western States. By O. H. Benson, Agriculturist in Charge of Boys' and Girls' Extension Work in the Northern and Western States. Pp. 39, figs. 24. Contribution from the States Relations Service. June, 1917. (Farmers' Bulletin 839.)

For general distribution.

**Drying Fruits and Vegetables in the Home, With Recipes for Cooking.** Pp. 29, figs. 20. June, 1917. (Farmers' Bulletin 841.)

For general distribution.


**Management of Common Storage Houses for Apples in the Pacific Northwest.** By H. J. Ramsey, Pomologist in Charge of Fruit Handling and Storage Investigations, and S. J. Dennis, Refrigeration Technologist, Office of Horticultural and Pomological Investigations. Pp. 23, figs. 4. Joint Contribution from the Bureau of Plant Industry and the Office of Markets and Rural Organization. June, 1917. (*Farmers' Bulletin 852.*)

Deals with the fundamentals of construction and the efficient management of common storage houses for apples under the conditions prevailing in Washington, Oregon, Idaho, and Montana.

**Home Canning of Fruits and Vegetables as Taught to Canning Club Members in the Southern States.** By Mary E. Cresswell and Ola Powell, Assistants in Home Demonstration Work, Office of Extension Work in the South. Pp. 42, figs. 17. Contribution from the States Relations Service. June, 1917. (*Farmers' Bulletin 853.*)

Especially suitable for distribution in the Southern States.

## DEPARTMENT BULLETINS—TECHNICAL.

 The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

**The Pine Trees of the Rocky Mountain Region.** By George B. Sudworth, Dendrologist. Pp. 47, pls. 28, maps 14. Contribution from the Forest Service. (Professional Paper.) May 26, 1917. (*Department Bulletin 460.*) Price, 30 cents.

Describes and illustrates all of the pine trees that inhabit the Rocky Mountain region, and discusses their forest habits.

**Nursery Practice on the National Forests.** By C. R. Tillotson, Forest Examiner. Pp. 86, pls. 22. Contribution from the Forest Service. (Professional Paper.) May 31, 1917. (*Department Bulletin 479.*) Price, 25 cents.

Should prove of interest and value to all who are engaged in nursery work with forest trees.

**Solid-Stream Spraying Against the Gipsy Moth and the Brown-Tail Moth in New England.** By L. H. Worthley, Agent in Charge of Scouting and Extermination Work, Gipsy and Brown-Tail Moth Investigations. Pp. 16, pls. 16. Contribution from the Bureau of Entomology. June 30, 1917. (*Department Bulletin 480.*) Price, 15 cents.

A description of this method of destroying the moths and a summary of the results obtained.

**The Melon Fly in Hawaii.** By E. A. Baek, Entomologist, and C. E. Pemberton, Scientific Assistant, Mediterranean and other Fruit Fly Investigations. Pp. 64, pls. 24, figs. 10. Contribution from the Bureau of Entomology. (Professional Paper.) June 30, 1917. (*Department Bulletin 491.*) Price, 25 cents.

Describes life history, habits, method of spread and measures for control of this insect.

**A System of Accounts for Cotton Warehouses.** By Roy L. Newton, Assistant in Warehouse Investigations, and John R. Humphrey, Investigator in Market Business Practice. Pp. 31. Contribution from the Office of Markets and Rural Organization. June 26, 1917. (*Department Bulletin 520.*) Price, 5 cents.

Should be of special interest to all cotton warehousemen and of general interest to their patrons and to those who are concerned in the reliability of warehouse receipts.

**Characteristics and Quality of Montana-Grown Wheat.** By Levi M. Thomas, Assistant in Grain Standardization. Pp. 34, pls. 2, figs. 17. Contribution from the Bureau of Plant Industry and the Office of Markets and Rural Organization. May 18, 1917. (*Department Bulletin 522.*) Price, 10 cents.

Is intended for farmers in Montana and adjoining States and for grain buyers throughout the country.



**Utilization of Ash.** By W. D. Sterrett, Forest Examiner. Pp. 52, pls. 10, figs. 3. Contribution from the Forest Service. (Professional Paper.) June 29, 1917. (Department Bulletin 523.) Price, 15 cents.

Of especial interest to manufacturers of wood products.

**Apple Blotch and Its Control.** By John W. Roberts, Pathologist, Fruit-Disease Investigations. Pp. 11, pls. 2, figs. 3. Contribution from the Bureau of Plant Industry. (Professional Paper.) June 28, 1917. (Department Bulletin 534.) Price, 5 cents.

Is of interests to plant pathologist and to the apple growers of the eastern half of the United States, especially those of the more southerly apple-growing sections.

**The Horse-Radish Flea-Beetle: Its Life History and Distribution.** By F. H. Chittenden, Entomologist in Charge of Truck Crop and Stored Product Insect Investigations, and Neale F. Howard, Specialist. Pp. 16, figs. 6. Contribution from the Bureau of Entomology. June 28, 1917. (Department Bulletin 535.) Price, 5 cents.

For general distribution.

**Shrimp: Handling, Transportation, and Uses.** By Ernest D. Clark, Investigator in Fish and Fish Products, and Leslie MacNaughton, formerly Assistant in Fish Investigations. Pp. 8, pls. 2. Contribution from the Bureau of Chemistry. June 27, 1917. (Department Bulletin 538.) Price, 5 cents.

Contains suggestions for the proper care and preparation of shrimp for the market.

**Effect of Fall Irrigation on Crop Yields at Bellefourche, South Dakota.** By F. D. Farrell, Agriculturist in Charge of Demonstrations on Reclamations Projects, and Beyer Aune, Farm Superintendent, Western Irrigation Agriculture. Pp. 15, fig. 1. Contribution from the Bureau of Plant Industry. (Professional Paper.) June 27, 1917. (Department Bulletin 546.) Price, 5 cents.

Of interest to farmers in the semi-arid regions.

**Variation in the Chemical Composition of Soils.** By W. O. Robinson, L. A. Steinkoenig, and William H. Fry, Scientists in Chemical Investigations. Pp. 16. Contribution from the Bureau of Soils. June 26, 1917. (Department Bulletin 551.) Price, 5 cents.

A complete analyses of 45 samples of soil representing four soil provinces. Of interest to chemists engaged in soil investigations.

**The Determination of Bacteria in Ice Cream.** By S. Henry Ayers and W. T. Johnson, Jr., of the Dairy Division. Pp. 16. Contribution from the Bureau of Animal Industry. (Professional Paper.) June 19, 1917. (Department Bulletin 563.) Price, 5 cents.

Of interest to chemists and food officials generally.

**The European Earwig and Its Control.** By D. W. Jones, Scientific Assistant. Pp. 12, figs. 8. Contribution from the Bureau of Entomology. June 18, 1917. (Department Bulletin 566.) Price, 5 cents.

A description of this insect, and suggested means of control. *No copies available for free distribution.*

**The Sanitary Control of Tomato-Canning Factories.** By Burton J. Howard, Microscopist in Charge, in collaboration with Charles H. Stephenson, Scientific Assistant, Microchemical Laboratory. Pp. 29, pls. 2, figs. 3. Contribution from the Bureau of Chemistry. June 25, 1917. (Department Bulletin 569.) Price, 5 cents.

Of interest to canners and food officials generally.

## MISCELLANEOUS.

**Yearbook of the U. S. Department of Agriculture, 1916.** Pp. 783, pls. 95, figs. 74. Price, \$1.00.

This Yearbook contains the annual report of the Secretary, 61 pages; 33 miscellaneous articles, 494 pages; an appendix, 188 pages; an index, 40 pages. Only 6 out of each 100 copies are allotted to this department, which number is insufficient to supply even its regular correspondents. Other applicants are therefore respectfully referred to their Representative or Delegate in Congress, as the other 94 per cent is allotted to that body. The Superintendent of Documents, Government Printing Office, Washington, D. C., has it for sale at \$1.00 per copy.

**Effect of Different Methods of Transplanting Coffee.** By T. B. McClelland, Assistant Horticulturist. Pp. 11, pl. 1. June 29, 1917. (Bulletin No. 22, Porto Rico Agricultural Experiment Station.) Price, 5 cents.

**Automobile Registrations, Licenses, and Revenues in the United States, 1916.** Pp. 15. Prepared by the Division of Road Economics, Office of Public Roads and Rural Engineering. June 21, 1917. (Circular No. 73, Office of the Secretary.) Price, 5 cents.

## SERIALS.

**Journal of Agricultural Research.** (For sale only.) Vol. 9, No. 10. June 4, 1917. Contents: The Pink Bollworm, *Pectinophora gossypiella*. (ij K-52.) By August Busek. Pp. 343-370, pls. 6, figs. 7. Price, 15 cents.

**Same, Vol. 9, No. 11.** June 11, 1917. Contents: Toxicity of Various Benzene Derivatives to Insects. (ie Minn.-15.) By William Moore.—Hybrids of *Zea ramosa* and *Zea tunicata*. (ig G-113.) By G. N. Collins.—*Eupatorium ageratoides*, the Cause of Trembles. (ih N. C.-6.) By R. S. Curtis and Frederick A. Wolf. Pp. 371-404, pls. 12, figs. 4. Price, 20 cents.

**Same, Vol. 9, No. 12.** June 18, 1917. Contents: A Study of Methods of Estimation of Metabolic Nitrogen. (il Ohio-2.) By E. B. Forbes, C. E. Mangels, and L. E. Morgan.—A New Strain of *Rhizoctonia solani* on the Potato. (ib G-114.) By J. Rosenbaum and M. Shapovalov.—A Form of Potato Disease Produced by *Rhizoctonia*. (ik Me.-10.) By Glen B. Ramsey. Pp. 405-426, pls. 6, figs. 3. Price, 15 cents.

*NOTE.*—Beginning with Volume 5, The Journal of Agricultural Research has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3 per year, 52 numbers.

**Experiment Station Record.** Vol. XXXVI, No. 7, May, 1917. E. W. Allen, Ph. D., Editor. Pp. 601-700. Price, 15 cents.

**Same, Vol. XXXVI, No. 8, June, 1917.** Pp. 701-800. Price, 15 cents.

**Same, Vol. XXXVI, No. 9. Abstract Number.** Pp. 801-900. June 30, 1917. Price, 15 cents.

*NOTE.*—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at \$1 a volume.

**The Monthly Crop Report.** Vol. 3, No. 6, June, 1917. Pp. 45-56. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

## SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

*RT* These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

**Bureau of Animal Industry.** No. 120. April, 1917. Pp. 39-46. June 5, 1917. Price, 5 cents.

**Bureau of Chemistry.** Supplement No. 25. [N. J. 4701-4750.] Pp. 261-320. June 20, 1917. Price, 10 cents.

**Bureau of Chemistry.** Supplement No. 26. [N. J. 4751-4800.] Pp. 321-374. June 13, 1917. Price, 10 cents.

**Federal Horticultural Board.** No. 39. April, 1917. Pp. 37-47. June 1, 1917. Price, 5 cents.

## SOIL SURVEYS.

*RT* All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

**Soil Survey of Clinton County, Iowa.** By H. W. Hawker, of the U. S. Department of Agriculture, and F. B. Howe, of the Iowa Agricultural Experiment Station. Pp. 64, pls. 3, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

**Soil Survey of Schoharie County, New York.** By E. T. Maxon, of the U. S. Department of Agriculture, and G. L. Fuller, of the New York State College of Agriculture. Pp. 34, pls. 4, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

**Soil Survey of Anson County, North Carolina.** By E. S. Vanatta, of the U. S. Department of Agriculture, and F. N. McDowell, of the North Carolina Department of Agriculture. Pp. 65, pls. 7, figs. 2, map. (From F. O. Soils, 1915.) Price, 15 cents.

**Soil Survey of Fairfax and Alexandria Counties, Virginia.** By William T. Carter, Jr., and C. K. Yingling, Jr. Pp. 43, pls. 4, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

## PUBLICATIONS OF THE WEATHER BUREAU.

*RT* Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

**Monthly Weather Review.** (For sale only.) Vol. 45, No. 3, March, 1917. [June 1, 1917.] Pp. 91-148. charts 9, figs. 11. Price, 25 cents per copy, \$2.50 per year. Payable to the Superintendent of Documents.

Special articles: Solar and sky radiation measurements during March, 1917. By H. H. Kimball.—Hail in the United States. By A. J. Henry.—Lightning and forest fires in California. By A. H. Palmer.—Density of snow, with a note on disappearance and settling. By A. J. Henry and H. F. Aleatore.—Meteorological observations on United States lightships. By H. E. Williams.—Avalanche wind at Juneau, January 26, 1917. By M. B. Summers.—Tornado at Cincinnati, March 11, 1917. By W. C. Devereaux.—Tornadoes of March 11, 1917, in Montgomery County, Ohio. By R. F. Young.—Unusual hailstorm at Ballinger, Tex.—Severe local storm at San Diego, Cal., February, 1917.—Winter of 1916-17 at Greenwich, England.

**National Weather and Crop Bulletin,** Nos. 12, 13, 14, 15, June, 1917. reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

JOS. A. ARNOLD,  
*Editor and Chief, Division of Publications.*

**FOOD BULLETINS AND EMERGENCY CIRCULARS.**

To aid the housewife to feed her family properly and economically and to conserve food from waste and spoilage, the department has issued Farmers' Bulletins Nos. 807, 808, 817, 824, 839, 841, and 853, and particular attention is invited to them.

**FOOD THRIFT SERIES.**

In addition to the bulletins, the department has published five pamphlets dealing with food thrift and giving latest information for the use of various foods and the making of desirable left-overs. These circulars contain many practical recipes which should be of direct interest to the housewife who wishes to help, through her household, in the national efforts to insure an adequate food supply. They will be supplied in answer to individual requests, and are especially suitable for distribution by those in charge of the many local organizations engaged in the food conservation campaign, and such officials are urged to write at once to the department for a supply to distribute in his or her locality. Ask for Food Thrift Series Nos. 1 to 5, and that your organization be listed for future numbers as issued.





WHEN JARS AND CANS ARE FULL  
DRY REMAINING SURPLUS

## Dry Surplus Fruits and Vegetables in Your Home

There is no difficulty about home drying fruits and vegetables. Sun drying of fruit was a common enough home industry a few years ago.

A few homemade shallow trays and a little mosquito netting are all you need for sun drying.

A few trays bent out of coarse wire netting and fitted like removable shelves into a lath frame are all you need to dry over your range or gas stove or before an electric fan.

Yes. There have been recent improvements in grandmother's successful method. It has been found that currents of air are better than heat in removing surplus water.

Water is all that is taken out; flavor, texture, and food value are not impaired. Soaking and cooking restore the succulent quality so important in the winter diet.

Dried products can be kept in paper containers.

Write today for free Farmers' Bulletin 841.

## Revive This Home Industry in Your Home

U. S. DEPARTMENT OF AGRICULTURE  
WASHINGTON, D. C.